#2 OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/960,143

DATE: 10/10/2001 TIME: 12:51:24

Input Set : A:\RTS-0266_Seq_ASCII.txt
Output Set: N:\CRF3\10102001\1960143.raw

3 <110> APPLICANT: Brenda F. Baker 4 Susan M. Freier 6 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF INTERLEUKIN 8 EXPRES 8 <130> FILE REFERENCE: RTS-0266	SION
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C> 10 <141> CURRENT FILING DATE: 2001-09-24 10 <160> NUMBER OF SEQ ID NOS: 88 13 <210> SEO ID NO: 1	$\supseteq \vdash$
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16 <213> ORGANISM: Artificial Sequence	
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20 <223> OTHER INFORMATION: Antisense Oligonucleotide	
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29 <213> ORGANISM: Artificial Sequence	
31 <220> FEATURE:	
33 <223> OTHER INFORMATION: Antisense Oligonucleotide	
35 <400> SEQUENCE: 2	20
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46 <220> FEATURE:	
47 <221> NAME/KEY: CDS	
48 <222> LOCATION: (91)(390)	
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53 ccggaaggaa ccatctcact gtgtgtaaac atg act tcc aag ctg gcc gtg gct 1 Met Thr Ser Lys Leu Ala Val Ala	
J ⁴ 5	
57 etc ttg gca gcc ttc ctg att tct gca gct ctg tgt gaa ggt gca gtt 1	62
58 Leu Leu Ala Ala Phe Leu Ile Ser Ala Ala Leu Cys Glu Gly Ala Val	
59 10 15 20	1.0
61 ttg cca agg agt gct aaa gaa ctt aga tgt cag tgc ata aag aca tac 2	10
62 Leu Pro Arg Ser Ala Lys Glu Leu Arg Cys Gin Cys Tie Lys Thi Tyl	
63 75	58
65 tcc aaa cct ttc cac ccc aaa ttt atc aaa gaa ctg aga gtg att gag 2 66 Ser Lys Pro Phe His Pro Lys Phe Ile Lys Glu Leu Arg Val Ile Glu	
4 = 50	
60 agt gga cca cac tgc gcc aac aca gaa att att gta aag ctt tct gat	106
70 Ser Gly Pro His Cys Ala Asn Thr Glu Ile Ile Val Lys Leu Ser Asp	

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Input Set : A:\RTS-0266_Seq_ASCII.txt
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	. 65 70	
	71 60	354
	72 2-2 GOG OFO FOT OTO GAC CCC ddy ydd dau cyy ycy cab abb bee	-
	73 gga aga gag cee ege egg gab bro Lys Glu Asn Trp Val Gln Arg Val R0 85	
	75 75	400
	77 oto dag aag tit tig aag agg get gag aat tea taa aaaaa baar	
	78 Val Glu Lys Phe Leu Lys Arg Ala Glu Asn Ser	
M>		460
	91 tototatat afccaadaat Cadidadat decadegada eccoudyour more	520
	or an attacta totatatata attituita uudituutuutuu atgouutuu	580
	or thoughthan afficantaa acaaludala ullilicate gedoodegad armini	640
	or astacttata totagagraf rattlatilly delicideded dededuced	700
	on atataaggast fffccfaggt affucdcudu adadtataca adadgoada arabay	760
	ofoogo as stateersac fffaarii Ca quaattuaat qqqcccgcca jan-j-j-	820
	02 +++daadcat cacataaaaa tdatdddaca ataaatttig coataaags aans	880
	95 ggaaatcctg gattttttc tgttaaatct ggcaacccta gtctgctagc caggatccac	940
	97 aagteettgt tecactgtge ettggtttet eetttatte taagtggaaa aagtattage	.000
	99 caccatctta cctcacagtg atgttgtgag gacatgtgga agcactttaa gtttttcat 1 101 cataacataa attatttca agtgtaactt attaacctat ttattatta tgtatttatt	1060
	101 cataacataa attatttta agiglaacti attaaceata taataataa 103 taagcatcaa atatttgtgc aagaatttgg aaaaatagaa gatgaatcat tgattgaata	1120
	103 taagcatcaa atattigige aagaattigg addattagad yaraatgatg tittattaga 105 gttataaga tgttatagta aatttattt attttagata ttaaatgatg tttattaga	1180
	105 gttataaaga tgttatagta aatttattt atttagata tagggtaccc agttaaattt 107 taaatttcaa tcagggtttt tagattaaac aaacaaacaa ttgggtaccc agttaaattt	1240
	109 tcatttcaa tcagggtttt tagattaaac addoddadada cattattgtt tatctgaaat 109 tcatttcaga taaacaacaa ataatttttt agtataagta cattattgtt tatctgaaat	1300
	109 tcatttcaga taaacadcaa ataatttttt agtataagta tattaattgc agctgtgttg 111 tttaattgaa ctaacaatcc tagtttgata ctcccagtct tgtcattgcc agctgtgttg	1360
	111 titaattgaa ctaacaatcc tagtitgata ctoccagtor systematics 113 gtagtgctgt gttgaattac ggaataatga gttagaacta ttaaaacagc caaaactcca	1420
•	113 gragtgotgt grigaatiac gydataatga gridgiddod brianning 115 cagtcaatat tagtaattic tigotggttg aaactigtti attatgtaca aatagatict	1480
	117 tataatatta tttaaatgac tgcattttta aatacaaggc tttatattt taactttaag	1540
	117 tataatatta tittadatgac tyeattitta databataysi 119 atgttttat gtgctctcca aattttttt actgtttctg attgtatgga aatataaaag	1600
	121 taaatatgaa acatttaaaa tataatttgt tgtcaaagt	1639
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	126 <2127 IFE. BNA 127 <213> ORGANISM: Artificial Sequence	
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	131 <223> OTHER INFORMATION: PCR Primer	
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Input Set : A:\RTS-0266_Seq_ASCII.txt
Output Set: N:\CRF3\10102001\1960143.raw

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185	<400> SEQUENCE: 8	
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190	<211> LENGTH: 20	
191	<212> TYPE: DNA	
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229	Caaaaayaaa Cacyaccycy Cayaaacaya Caaacoccoc Cyyamayaac 22,000	



Input Set : A:\RTS-0266_Seq_ASCII.txt
Output Set: N:\CRF3\10102001\I960143.raw

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231	qaaa	atga	ag a	aactg	ttac	a co	aagg	rtgaa	tta	ittta	taa	atta	tgta	ict t	gccc	agaag	240
232	cqaa	caga	ict 1	tttac	tato	a ta	agaa	ccct	tcc	ttgg	rtgt	gcto	ttta	itc t	acag	gaatcc	300
233	aagacctttc aagaaaggtc					c tt	ggat	tctt	tto	ttca	ıgga	cact	agga	ica t	aaag	rccacc	360
234	tttt	tato	rat 1	ttatt	gaaa	t tt	ctca	ctcc	ato	cctt	ttg	ctga	tgat	ca t	gggt	cctca	420
235	gagg	rtcag	rac 1	ttaat	atco	t to	gata	aaga	qca	tgaa	gca	acag	rtggo	etg a	aacca	gagtt	480
236	agaa	ccca	ora 1	tacto	tttc	c ac	taaq	rcata	caa	cttt	cca	ttac	rataa	ca o	catac	ctccc	540
237	accc	caac	ca a	agcag	ct.cc	a ort	gcac	cact	tto	taga	qca	taaa	cata	icc t	taac	tttac	600
238	aact	taac	rta d	acctt	gaat	a ct	atto	ctat	cto	rgaat	ata	ctat	tctc	tt 1	cato	cttcct	660
230	ctat	tasa	ימר (cctcc	tatt	c ct	caat	acct	t.a.c	tcca	act	acct	ttac	raa o	atto	etgete	720
240	++=+	acct	coc :	actac	raatt	a at	atct	taαt	acc	actt	atc	tatt	ctac	ta 1	atac	ıtcagt	780
240	catt	.gcct	·+ a /	2+++0	.ttct	t ct	gata	gacc	. aaa	ctct	tta	agga	caac	rta o	cctac	tctta	840
247	tata	+++	(72+00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	c at	tact	cada		rttac	tcc	ataa	atat	t.t. (rtaga	actga	900
242	+++	+ > + >	ta q	2000	.ccca	or or	catt	cact	cto	rttaa	cta	gcat	taga	aaa a	aacaa	atctt	960
243	++~	nacy	1	aayac	atgo	.9 CC	1+220	ranca	ata	acac	rttc	ctac	raaac	eta 1	totaa	aatgc	1020
244	LLGa	laaag	166	y	.a.cyc	20 00	++>	ayca		atas	122	ratt	aaat	aa (rttat	cttca	1080
245	LLag	dada	lay d	allia		.a ac	+	+ ~ = =				+ = + c	rccat	-99 \ -+= :	aaara	aaatc	1140
246	ccat	catg	jat a	agcat	.ctgt	aaı	.caac	icyaa	. aac	ataa	.aa.	2+01	atas	aca t	taato	tatga	1200
24/	atco	atga	itc i		.ctaa	ic ac	couge	+200		g cac) tat	acci	.9 ccc	ta t	taasa	gcttca	1260
248	taaa	igtta	itc	Lagaa	lataa	la ac	ayca	Lace	1 all	.ya.c	act	cacc	aaa	209	++-	,cccca	1320
249	gtat	ttta	iaa i	tgtat	atta	la ac	lllac	idili	1 LLI	.caac	raat	caac	.+++	tac i	7+420	gtcata	1380
250	CTCC	gtat	CTT (gataa	ıggaa	ic aa	acag	gaag	1 191	-yaış	tact	tays	, , , , , ,	, to	agag	ggggat	1///
251	gggc	ccato	ag	ttgca	iaato	g to	gaat	LLCC	: LCI	-gaca	llaa	Lyda	laaya	acy o	29991	gcata	1500
252	agtt	ctct	ag	taggg	rtgat	g at	ataa	laaag	CC	iccg	jage	acto	cata	aay y	naga	aactt	1560
253	tcag	ragac	cag (cagag	rcaca	ic aa	agcti	ctag	ggad	caaga	igcc	agga	agaa	aac o	cacco	ggaagg	1612
	aacc	catto	etc a	actgt	gtgt	a aa	ac at	g ac	et to	cc aa	ig Ci	cg go	cc gi	-g g	CL CL	c ttg	1013
255									ır Se	er L			La Va	al A.	га це	eu Leu	
256								L .			7	5.				10	
258	gca	gcc	ttc	ctg	att	tct	gca	gct	ctg	tgt	gaa	ggt	aag	cac	atc	דננ	1661
	Ala	Ala	Phe	Leu		Ser	Ala	Ala	Leu		Glu	GLY	Lys	His		Pne	
260					15					20					25		1700
262	ctg	acc	tac	agc	gtt	ttc	cta	tgt	cta	aat	gtg	atc	ctt	aga			1709
263	Leu	Thr	Tyr	Ser	Val	Phe	Leu	Cys		Asn	Val	Ile	Leu		*	Gln	
264				30					35					40			
266	agc	tat	tct	tga													1757
267	Ser	Tyr	Ser	*	Cys	Phe	Gly	Asn	Lys	His	Pro	Phe	Tyr	Ser	Glu	Thr	
268					45					50					55		
270	gaa	tat	aat	ctt	agc	agt	caa	tta	atg	tta	aat	tga	aga	ttt	aga	aaa .	1805
271	Glu	Tyr	Asn	Leu	Ser	Ser	Gln	Leu	Met	Leu	Asn	*	Arg	Phe	Arg	Lys	
272				60					65						70		
274	aac	tat	ata	taa	cac	tta	gga	aat	ata	aag	gtt	tga	tca	ata	tag	ata	1853
275	Asn	Tyr	Ile	*	His	Leu	Gly	Asn	Ile	Lys	Val	*	Ser	Ile	*	Ile	
276		-			∵75		_			80							
	ttc	tgc	ttt	tat	aat	tta	tac	cag	gta	gca	tgc	ata	tat	tta	acg	taa	1901
				Tyr												*	
	85	4 -		4		90	•				95		=				
		agt	aat	tta	tag	tat	gtc	cta	ttg	aga	acc	acg	gtt	acc	tat	att	1949
				Leu		Tyr	val	Leu	Leu	Arg	Thr	Thr	Val	Thr	Tyr	Ile	
															-		
284	100						105					110					
284 286		tat	taa	tat	tσa	att		caa	gat	aac	tca		aat	tcc	act	cct	1997

RAW SEQUENCE LISTING DATE: 10/10/2001 PATENT APPLICATION: US/09/960,143 TIME: 12:51:24

Input Set : A:\RTS-0266_Seq_ASCII.txt
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	_	_			_		Ser		_		_						
292	CYS	130	110	UCI		****	135	Lou	*** 9			140		001	0,10		
	αtt		ana	tac	cct	σat	tat	aσa	cca	aac	atα		aac	tta	+++	ata	2093
	Val		_			-	Tyr	_			_						2000
	145	•	AIG	1 Y T	110	нэр	150	Arg	110	Gry	ricc	155	ASII	БСС	1110	110	
		++0	tat	t = =	tta	+++	ctg	aarr	aca	att	tct		cta	αασ	agt	ctť	2141
							Leu										2.44
	160	TIIC	Cys		1110	1110	165	<i>D</i> , 0	mu	110	001	170	шси	Olu	501	200	
		++~	cct	act	ata	aat	aac	act	ata	αta	tca		add	att	ata	caa	2189
							Asn										2103
	175	пси	110	1111	110	180	ASII	1111	var	vai	185	OIII	9	110	1100	190	
		taa	CCS	σat	222		acc	atσ	aan	ata		ata	t t a	tac	222		2237
	Tyr						Thr										2237
308	TYT	••	FIO	нэр	цуз	195	T 111T	ricc	шуз	Het	200	110	пси	1 <u>7 1</u>	цуз	205	
	224	+ ~+	224	tat	tat		gga	aat	tat	+ ==		tta	taa	att.	a t a		2285
							Gly										2203
312	ASII	261	ASII	261	210	116	GIY	261	Суз	215	riec	цец	Det	Val	220	T 11.T	
	a++	+++	+ = =			maa.	cta	a c t	a a a		220	aac	tan	αaα		ttc	2333
							Leu										2333
316	Val	FIIE		ASII	225	GIU	ьeu	T 111T	GIU	230	пуз	СТУ		GIU	110	235	
	200	+	~~~	++~		200	aac	2 ± 4	2 t cr		too	2+2	ata	tac	222		2381
						_	Asn	_	_				_			,caa *	2301
320	AIG	ASII	GIU	FIIE	240	AIG	ASII	Mec	Mec	245	261	116	Vai	261	250		
	+ ~ ~	+ - +	+ ~ ~	a a t		224	gaa	~+ ¬	aa+		242	aat	ata	cat		aat	2429
	Ser						Glu										2427
324	361	тут	ттр	ASII		255	Gru	Val	Ala	СТУ	260	Ата	Val	FIO	Vai	265	
	222	2+4	22+	aat	+		ctt	+++	000	003		aat	acs.	at t	tta		2477
	Lys						Leu										24//
327	пуъ	116	ASII	PIO	•	270	ьец	FILE	FIO	FIO	275	GLY	нта	Val	пец	280	
	244	a ort	aat	222	722		aga	tat	cad	tac		aan	202	tac	tac		2525
							Arg										2323
332	AIG	261	мта	пуъ	285	Leu	MIG	Cys	GIII	290	116	пур	1111	TYT	295	цуъ	
	aat	++~	Cac	000		+++	atc	222	ma a		ana	ata	att	αaα		aas	2573
							Ile										23/3
336	FIO	rne	1113	300	цуз	rne	116	шуз	305	пси	пту	Val	110	310	JUL	Gry	
	003	C2C	taa		220	202	gaa	a++		+==	ata	ctt	† 22		ana	tta	2621
			_	_			Glu		_		_						2021
340	FIO	птэ	315	нта	ASII	1111	GIU	320	Mec	••	Val	пец		шуз	325	шец	
	a +	2++		+++	tar	722	act		22t	+	aas	aaa	taa	222		+ +=	2669
							Thr					Arg					2003
344	изр	116	пец	330	••	GIII	1111	••	HOII		Gry	335	пр	цуз	- Y -	пси	
	aas	224	++~		ata	++=	gga	++=	car	tan	t = =	-	222	caa	220	222	2717
							Gly					Met					2/1/
	340	nys	FIIE	GTII	val	345	GIY	⊥cu	GTII	••		·MCL	350	GIII	uon	цуз	
		222	ats	+++	ata		atg	ace	+++	222	†a+	aa+		tta	cac	aac	2765
					_		Met						_				2,03
221	116	பில	11C	LIIG	Val	тАт	II-C	T 11T	F 116	пуз	тÄт	GTA	OCI	1116	1113	N311	

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/960,143

DATE: 10/10/2001 TIME: 12:51:25

Input Set : A:\RTS-0266_Seq_ASCII.txt Output Set: N:\CRF3\10102001\I960143.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:79 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:3